



RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/068,664
Source: OIPE
Date Processed by STIC: 10/31/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202**
- 3. Hand Carry directly to:**
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202**

01PE

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/068,664

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping"
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



Does Not Comply
Corrected Diskette Needed

OIPE

Another error on p. 4

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/068,664

DATE: 10/31/2002

TIME: 15:58:50

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\10312002\J068664.raw

3 <110> APPLICANT: Li, Chuan
5 <120> TITLE OF INVENTION: De novo synthesized plasmid, methods of making and use thereof

7 <130> FILE REFERENCE: ETI.PMMU.011502

9 <140> CURRENT APPLICATION NUMBER: US 10/068,664

C--> 10 <141> CURRENT FILING DATE: 2002-10-15

12 <160> NUMBER OF SEQ ID NOS: 41

14 <170> SOFTWARE: PatentIn version 3.1

16 <210> SEQ ID NO: 1

17 <211> LENGTH: 44

18 <212> TYPE: DNA

19 <213> ORGANISM: synthetic oligo

21 <400> SEQUENCE: 1

22 cgcccgcgcg cggggcgccc cgccttcgcg ttctcgcgc actg

44

25 <210> SEQ ID NO: 2

26 <211> LENGTH: 44

27 <212> TYPE: DNA

28 <213> ORGANISM: synthetic oligo

30 <400> SEQUENCE: 2

31 cgcccgcgcg cggggcgccc cgccaacgcg gaagtcagcg ccct

44

34 <210> SEQ ID NO: 3

35 <211> LENGTH: 44

36 <212> TYPE: DNA

37 <213> ORGANISM: synthetic oligo

39 <400> SEQUENCE: 3

40 cgcccgcgcg cggggcgccc cgccaacgca gaccgttcgcg tggc

44

43 <210> SEQ ID NO: 4

44 <211> LENGTH: 32

45 <212> TYPE: DNA

46 <213> ORGANISM: synthetic oligo

48 <400> SEQUENCE: 4

49 ccgcgcgcgc gcttcactg agcgtcagac cc

32

52 <210> SEQ ID NO: 5

53 <211> LENGTH: 32

54 <212> TYPE: DNA

55 <213> ORGANISM: synthetic oligo

57 <400> SEQUENCE: 5

58 gggcggcggg cggttcggga aatgtgcgcg ga

32

61 <210> SEQ ID NO: 6

62 <211> LENGTH: 32

63 <212> TYPE: DNA

64 <213> ORGANISM: synthetic oligo

66 <400> SEQUENCE: 6

67 gggcggcggg cggttcgcgg aagatgcgtg at

32

invalid response, see error summary sheet item 10 throughout

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING

DATE: 10/31/2002

PATENT APPLICATION: US/10/068,664

TIME: 15:58:50

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\10312002\J068664.raw

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70 <210> SEQ ID NO: 7
71 <211> LENGTH: 32
72 <212> TYPE: DNA
73 <213> ORGANISM: synthetic oligo
75 <400> SEQUENCE: 7
76 gggcggcggg cgttctcatg tttgacagct ta 32
79 <210> SEQ ID NO: 8
80 <211> LENGTH: 32
81 <212> TYPE: DNA
82 <213> ORGANISM: synthetic oligo
84 <400> SEQUENCE: 8
85 gggcggcggg cgaagccact ggagcacctc aa 32
88 <210> SEQ ID NO: 9
89 <211> LENGTH: 32
90 <212> TYPE: DNA
91 <213> ORGANISM: sythetic oligo
93 <400> SEQUENCE: 9
94 gcggcgcggc ggtacgggggt ctgacgctca gt 32
97 <210> SEQ ID NO: 10
98 <211> LENGTH: 32
99 <212> TYPE: DNA
100 <213> ORGANISM: synthetic oligo
102 <400> SEQUENCE: 10
103 gcggcgcggc ggategcccc atcatccagc ca 32
106 <210> SEQ ID NO: 11
107 <211> LENGTH: 32
108 <212> TYPE: DNA
109 <213> ORGANISM: sythetic oligo
111 <400> SEQUENCE: 11
112 gcggcgcggc ggttacggtt cgctgcgta tc 32
115 <210> SEQ ID NO: 12
116 <211> LENGTH: 32
117 <212> TYPE: DNA
118 <213> ORGANISM: synthetic oligo
120 <400> SEQUENCE: 12
121 gcggcgcggc ggaagcacac ggtcacactg ct 32
124 <210> SEQ ID NO: 13
125 <211> LENGTH: 32
126 <212> TYPE: DNA
127 <213> ORGANISM: synthetic oligo
129 <400> SEQUENCE: 13
130 ggcggggcgc ccaccatcga atggtgcaaa ac 32
133 <210> SEQ ID NO: 14
134 <211> LENGTH: 44
135 <212> TYPE: DNA
136 <213> ORGANISM: synthetic oligo
138 <400> SEQUENCE: 14
139 cgcgcgcgc cggggcgcg cccgtgccta atgagtgagc taac 44
142 <210> SEQ ID NO: 15

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RAW SEQUENCE LISTING

DATE: 10/31/2002

PATENT APPLICATION: US/10/068,664

TIME: 15:58:50

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\10312002\J068664.raw

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143 <211> LENGTH: 32
144 <212> TYPE: DNA
145 <213> ORGANISM: synthetic oligo
147 <400> SEQUENCE: 15
148 cgggcgcggc ccataaaagc ggcttcctga ca 32
151 <210> SEQ ID NO: 16
152 <211> LENGTH: 39
153 <212> TYPE: DNA
154 <213> ORGANISM: synthetic oligo
156 <400> SEQUENCE: 16
157 gcaaaacaaa acggcctcct gtcaggaagc cgcttttat 39
160 <210> SEQ ID NO: 17
161 <211> LENGTH: 44
162 <212> TYPE: DNA
163 <213> ORGANISM: synthetic oligo
165 <400> SEQUENCE: 17
166 ggaggccgtt ttgttttgct cgaaattaat acgactcact atag 44
169 <210> SEQ ID NO: 18
170 <211> LENGTH: 50
171 <212> TYPE: DNA
172 <213> ORGANISM: synthetic oligo
174 <400> SEQUENCE: 18
175 ggaattgtta tccgctcaca attccctata gtgagtcgta ttaatttcga 50
178 <210> SEQ ID NO: 19
179 <211> LENGTH: 42
180 <212> TYPE: DNA
181 <213> ORGANISM: synthetic oligo
183 <400> SEQUENCE: 19
184 ggaattgtga gcggataaca attcctaatt ttgtttaact tt 42
187 <210> SEQ ID NO: 20
188 <211> LENGTH: 34
189 <212> TYPE: DNA
190 <213> ORGANISM: synthetic oligo
192 <400> SEQUENCE: 20
193 atgtatatct cttctttaa gttaaacaaa atta 34
196 <210> SEQ ID NO: 21
197 <211> LENGTH: 50
198 <212> TYPE: DNA
199 <213> ORGANISM: synthetic oligo
201 <400> SEQUENCE: 21
202 aagaaggaga tatacatatg aagcttcccg ggtaccgggc gactagttaa 50
205 <210> SEQ ID NO: 22
206 <211> LENGTH: 58
207 <212> TYPE: DNA
208 <213> ORGANISM: synthetic oligo
210 <400> SEQUENCE: 22
211 tagaggcccc aaggggttat gctagttaac tagtcgaccg gtaccggga agcttcat 58
214 <210> SEQ ID NO: 23
215 <211> LENGTH: 50

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/068,664

DATE: 10/31/2002

TIME: 15:58:50

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\10312002\J068664.raw

216 <212> TYPE: DNA
 217 <213> ORGANISM: synthetic oligo
 219 <400> SEQUENCE: 23
 220 ctagcataac cccttgggcc tctaaacggg gtcttgaggg gttttttgca 50
 223 <210> SEQ ID NO: 24
 224 <211> LENGTH: 37
 225 <212> TYPE: DNA
 226 <213> ORGANISM: synthetic oligo
 228 <400> SEQUENCE: 24
 229 cgcgcgcgc cctgcaaaaa acccctcaag acccggt 37
 232 <210> SEQ ID NO: 25
 233 <211> LENGTH: 230
 234 <212> TYPE: DNA
 C--> 235 <213> ORGANISM: artificial DNA
 W--> 237 <220> FEATURE:
 W--> 237 <223> OTHER INFORMATION: - explanation required, see p. 6
 W--> 237 <400> 25
 238 cgggcgcgcgc ccataaaagc ggcttcctga caggaggccg ttttgttttg ctcgaaatta 60
 240 atacgactca ctataggga ttgtgagcgcg ataacaattc ctaattttgt ttaactttta 120
 242 gaaggagata tacatatgaa gcttcccgccg taccggctga ctagttaact agcataaccc 180
 244 cttggggcct ctaaacgggt cttgaggggt tttttgcagg gcggcgggcg 230
 247 <210> SEQ ID NO: 26
 248 <211> LENGTH: 32
 249 <212> TYPE: DNA
 250 <213> ORGANISM: synthetic oligo
 252 <400> SEQUENCE: 26
 253 ggccggggcgc ccttccccct tgaaggggcg aa 32
 256 <210> SEQ ID NO: 27
 257 <211> LENGTH: 44
 258 <212> TYPE: DNA
 259 <213> ORGANISM: sythetic oligo
 261 <400> SEQUENCE: 27
 262 cgcgcgcgcgc ccgggcgcgcg cccgatgagc tggacgcact cgcg 44
 265 <210> SEQ ID NO: 28
 266 <211> LENGTH: 35
 267 <212> TYPE: DNA
 268 <213> ORGANISM: synthetic oligo
 270 <400> SEQUENCE: 28
 271 gaaggagata tacatatgaa tattcgtcca ttgca 35
 274 <210> SEQ ID NO: 29
 275 <211> LENGTH: 36
 276 <212> TYPE: DNA
 277 <213> ORGANISM: sytnetic oligo
 279 <400> SEQUENCE: 29
 280 ctagttaact agtcgattac atcatgccgc ccatgc 36
 283 <210> SEQ ID NO: 30
 284 <211> LENGTH: 32
 285 <212> TYPE: DNA
 286 <213> ORGANISM: synthetic oligo

RAW SEQUENCE LISTING

DATE: 10/31/2002

PATENT APPLICATION: US/10/068,664

TIME: 15:58:50

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\10312002\J068664.raw

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288 <400> SEQUENCE: 30
289 ggcggggcgcc ccgcgggata tccggatata gt 32
292 <210> SEQ ID NO: 31
293 <211> LENGTH: 32
294 <212> TYPE: DNA
295 <213> ORGANISM: synthetic oligo
297 <400> SEQUENCE: 31
298 cgcccgccgc ccggtgccta atgagtgagc ta 32
301 <210> SEQ ID NO: 32
302 <211> LENGTH: 2701
303 <212> TYPE: DNA
304 <213> ORGANISM: artificial sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: A de novo synthesized plasmid
309 <400> SEQUENCE: 32
310 ccgcgcgcgc gcttccactg agcgtcagac cccgtagaaa agatcaaagg atcttcttga 60
312 gatacttttt ttctgcgcgt aatctgctgc ttgcaaaaaa aaaaaccacc gctaccagcg 120
314 gtggtttgtt tgccggatca agagctacca actctttttc cgaaggtaac tggcttcagc 180
316 agagcgcaga taccaaatac tgccttcta gtgtagccgt agttaggcca ccacttcaag 240
318 aactctgtag caccgcctac atacctcgt ctgctaatac tgttaccagt ggctgctgcc 300
320 agtggcgata agtcgtgtct taccgggttg gactcaagac gatagttacc ggataaggcg 360
322 cagcggtcgg gctgaacggg gggttcgtgc acacagccca gcttggagcg aacgacctac 420
324 accgaactga gatacctaca gcgtgagcta tgagaaagcg ccacgcttcc cgaagggaga 480
326 aaggcggaca ggtatccggg aagcggcagg gtcggaacag gagagcgcac gagggagctt 540
328 ccagggggaa acgcctggta tctttatagt cctgtcgggt ttcgccacct ctgacttgag 600
330 cgctgatatt tgtgatgtc gtcagggggg cggagcctat ggaaaaacgc cagcaacgcg 660
332 gcctttttac ggttccctggc cttttgctgg ccttttgctc acatgttctt tccctgcgta 720
334 tcccctgatt ctgtggataa ccgtattacc gcctttgagt gagctgatac cgctcgcgcg 780
336 agccgaacga ccgagcgcag cgagtcagt agcgaggaag cggaagagcg cctgatgcgg 840
338 tattttctcc ttacgcattc gtgcggtatt tcacaccgca tatggtgcac tctcagtaca 900
340 atctgctctg atgcgcata gtttaagccag tatacactcc gctatcgcta cgtgactggg 960
342 tcatggctgc gcccgcacac ccgccaacac ccgctgacgc gccctgacgg gcttgtctgc 1020
344 tcccggcatc cgcttacaga caagctgtga ccgtctccgg gagctgcatg tgtcagaggt 1080
346 tttcaccgtc atcaccgaaa cgcgcgaggg agctgcggta aagctcatca gcgtggctcg 1140
348 gaagcgattc acagatgtct gcctgttcat ccgcgtccag ctctgtttagt ttctccagaa 1200
350 gcgttaatat ctggcttctg ataaagcggg ccatgttaag ggcggttttt tccctgtttg 1260
352 tcaactgatc ctccgtgtaa gggggatttc tgttcatggg ggtaatgata ccgatgaaac 1320
354 gagagaggat gctcacgata cgggttactg atgatgaaca tgcccggtta ctggaacgtt 1380
356 gtgagggtaa acaactggcg gtatggatgc ggcgggacca gagaaaaatc actcagggtc 1440
358 aatgccagcg ctctgttaat acagatgtag gtgttccaca gggtagccag cagcatcctg 1500
360 cgatgcagat ccggaacata atggtgcagg gcgtgactt ccgcgttggc ggggcgcccg 1560
362 ggcggcgggc gttcggggaa atgtgcgcgg aacctctatt tgtttatttt tctaaatata 1620
364 ttcaaatatg tatccgctca tgagacaata acctgataa atgcttcaat aatattgaaa 1680
366 aaggaagagt atgagtattc aacatttccg tgcgcctt attccctttt ttgcggcatt 1740
368 ttgccttccg gtttttctc acccagaaac gctggtgaaa gtaaaagatg ctgaagatca 1800
370 gttgggtgca cgagtgggtt acatcgaact ggatctcaac agcggtaaga tccctgagag 1860
372 ttttcgcccc gaagaacgtt ttccaatgat gagcactttt aaagtctctg tatgtggcgc 1920
374 ggtattatcc cgtattgacg ccgggcaaga gcaactcggg cgccgcatac actattctca 1980
376 gaatgacttg gttgagtact caccagtcac agaaaagcat cttacggatg gcatgacagt 2040

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/31/2002
 PATENT APPLICATION: US/10/068,664 TIME: 15:58:51

Input Set : A:\PTO.VSK.txt
 Output Set: N:\CRF4\10312002\J068664.raw

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.
 Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
 or "Unknown". Please explain source of genetic material in <220> to <223>
 section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32)
 (Sec.1.823 of new Rules)

Seq#:25,39

VERIFICATION SUMMARY

DATE: 10/31/2002

PATENT APPLICATION: US/10/068,664

TIME: 15:58:51

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\10312002\J068664.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:235 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25
L:237 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:25, <213>
ORGANISM:Artificial Sequence
L:237 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:25, <213>
ORGANISM:Artificial Sequence
L:237 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:25,Line#:237
L:918 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:39
L:920 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:39, <213>
ORGANISM:Artificial Sequence
L:920 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:39, <213>
ORGANISM:Artificial Sequence
L:920 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:39,Line#:920